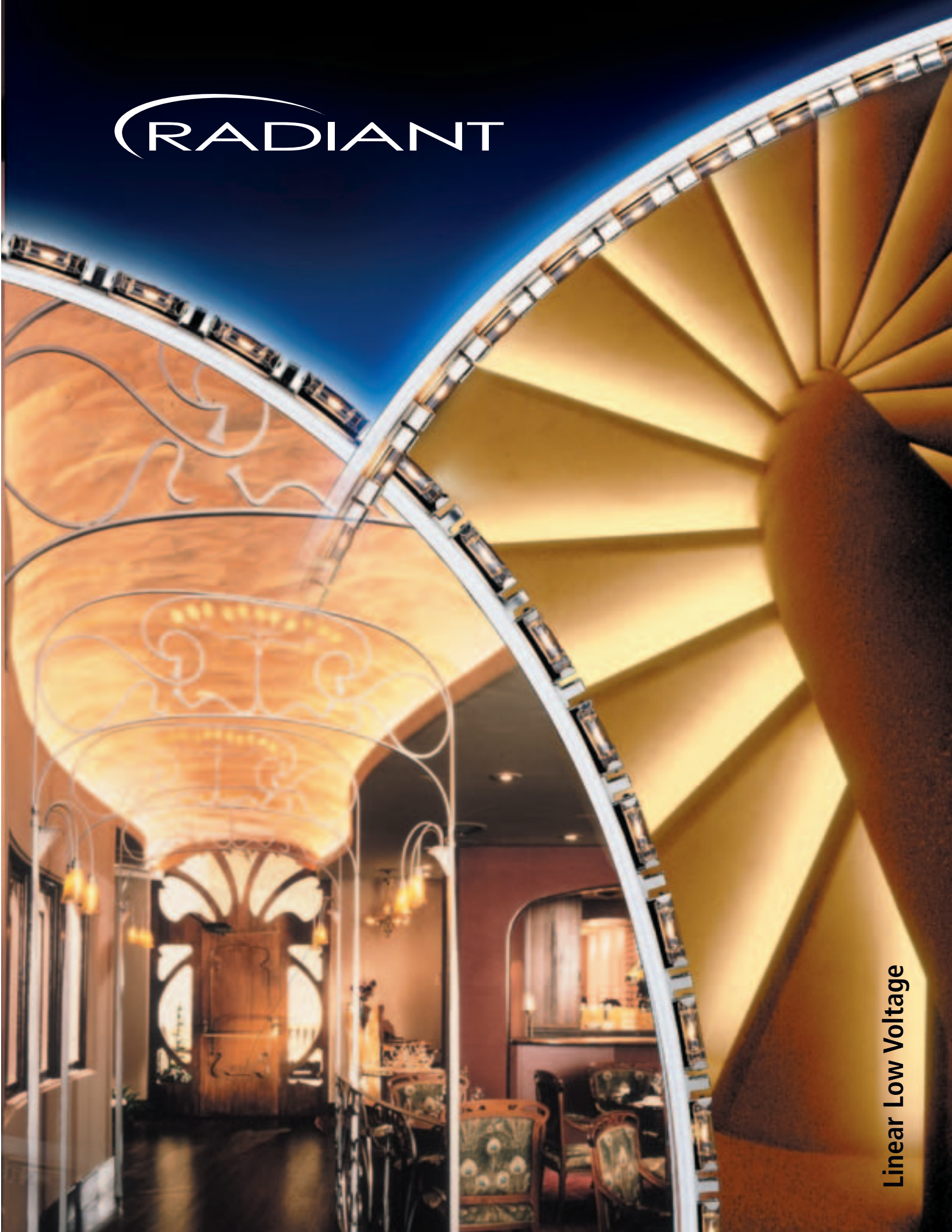
RADIANT



Linear Low Voltage

The Radiant Low Voltage Lighting System is the Specifier's choice for architectural coves requiring continuous dramatic lighting. Designed to complement a wide range of design possibilities and add excitement to both interior and exterior, the Radiant System was designed specifically for long run, long life commercial and residential lighting applications.

The Radiant Low Voltage Lighting System takes a new and innovative approach to interior and exterior lighting applications by solving many problems associated with low voltage lighting. Radiant fixtures mold to conform to unusual shapes and irregular coves without field drawings and can be field cut and modified to conform to actual job requirements. The strip to strip connector assemblies provide electrical connections and polarization with one screw and integral sockets provide continuous illumination over long lengths. A secondary 25A circuit is built into each strip to ensure steady, even light distribution over long runs while doubling the current carrying capacity of any miniature light strip. Ultra High Temperature Thermoplastic provides a heat resistant surface material as well as an unusual amount of flexibility. Xenon and incandescent, low voltage lamps are designed specifically for long life commercial applications. These lamps are available in clear to provide sharp, crisp lighting or frosted for a soft wash of light. Indexed Lamp Clips lock in position to maintain lamp spacing along curves and corners. Finally, a wide range of precision engineered accessories have been developed to allow complete and creative presentations.

The Radiant Low Voltage Lighting System represents the marriage of superior technology, precision engineering and innovative design which combine to create highly efficient, highly effective specialized lighting equipment. The designs and engineering accomplishments featured here are the result of an ongoing collaborative effort between David Morgan of DMA and Bruce Belfer of the Belfer Group. Multiple patents are pending.

RADIANT

Table of Contents:

THE RADIANT ADVANTAGE

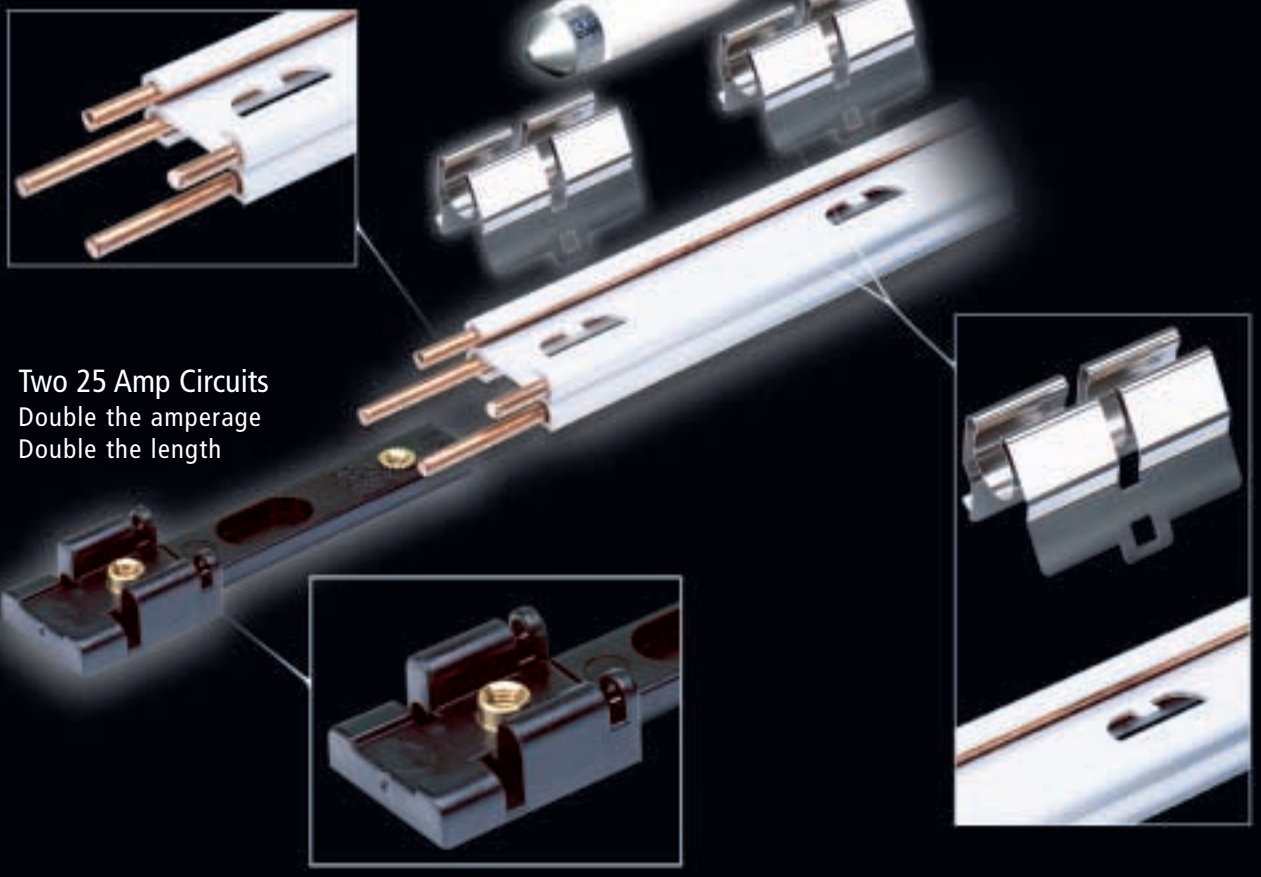
The Radiant Low Voltage Lighting System offers many distinct installation and maintenance advantages:

- Integrated Vertical Connector Assembly makes short work of all connections...strip to strip or strip to feed, all four connectors are automatically polarized and joined with one single screw
- Two 25 Amp Circuits double the current carrying capacity of any miniature light strip
  - 1200 watts @ 24 volts
  - 600 watts @ 12 volts
- Strip to Strip Connector Assembly with integral sockets for continuous illumination
- Integrated Vertical Connector Assembly eliminates wirenuts, screw terminals, tab connections and junctions boxes... all the installation headaches normally associated with miniature low voltage systems
- Indexed Lamp Clip Assembly retains on center spacing in any curved or straight configuration
- Multiple Patents Pending

Two lamp styles:

Festoon

Rigid Loop



Two 25 Amp Circuits
Double the amperage
Double the length

Integrated Vertical
Connector Assembly
Accepts all Radiant connectors

Indexed Lamp
Clip Assembly
Lamps stay in place

Strip to Strip
Connector Assembly
Integral sockets for
continuous light

THE RADIANT TWO CIRCUIT SYSTEM

- NEC 411 and UL 1598 specify that the maximum allowable circuit is 25 Amps
- In order to overcome restrictions this 25 Amp limit, we have included a 2nd 25 Amp circuit in the fixture itself
- No complex calculations are needed
- The second 25 Amp circuit is automatically accessed with any of our RAD 200 series connector accessories

RADIANT CHECKSUM™ SYSTEM

THE RADIANT CHECKSUM SYSTEM is our unique, simple and accurate method of ensuring that every Radiant Linear Low Voltage System is properly circuited and meets applicable U.L. and N.E.C. codes, which allow a maximum of 25 amps per Low Voltage circuit.

TRADITIONAL AMPERAGE CALCULATIONS

Traditionally extensive calculations were necessary to determine the size and number of transformers, circuits, feed locations and overcurrent protection devices needed for a linear low voltage system.

FOR EXAMPLE ▸

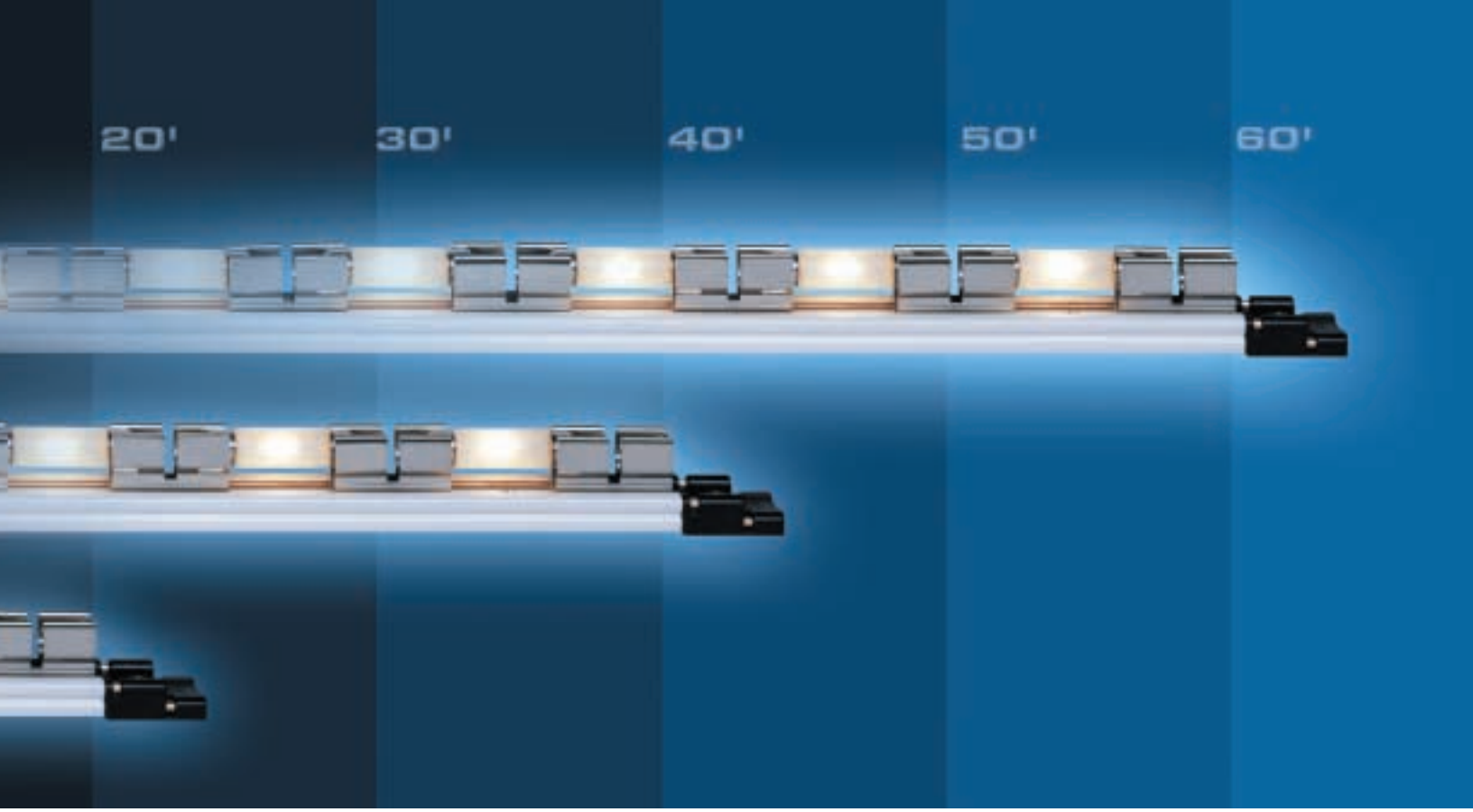
317 linear feet of linear low voltage strip with 5 watt lamps, 2.125 inches on center, 24 volts (all Radiant Linear Low Voltage strips are 2.125 inches (54 mm) on center)

HERE IS THE MATH

317 feet x 12 inches/foot =	**3804 inches**
3804 inches / 2.125 inches on center =	**1790 lamps**
1790 lamps x 5 watts/lamp =	**8950 watts**
8950 watts / 24 volts =	**373 amps**
373 amps x 1.06 (6% Load Margin) =	**396 amps**
396 amps / 25 amps/circuit =	**15.84**
	16 circuits
	25 amps each
	note: always round up

THE RADIANT CHECKSUM SYSTEM eliminates all the traditional calculations associated with low voltage products. The ✔ SUM™ is precalculated based upon the voltage and amperage characteristics of 12 and 24 volt systems, including a Load Margin.

Radiant Low Voltage Linear Feet		Radiant Low Voltage Linear Meters	
Volt	✔ SUM	Volt	✔ SUM
12V	50	12V	15
24V	100	24V	30



THE ENTIRE CALCULATION IS DONE IN TWO STEPS:

total footage x watts/lamp =	**load factor**
load factor / CHECKSUM =	**number of 25 amp circuits required**
	note: always round up

THE RADIANT CHECKSUM SYSTEM calculates the number of circuits quickly and accurately.

Using the same example as before
317 linear feet of linear low voltage strip with 5 watt lamps, 2.125 inches on center, 24 volts
(all Radiant Linear Low Voltage strips are 2.125 inches (54 mm) on center)
For a 24 Volt System in linear feet, the ✔ SUM™ = 100

317 feet x 5 watts/lamp =	**1585 load factor**
1585 /100 (✔ SUM) =	**15.85**
	16 circuits
	25 amps each
	note: always round up

THE RADIANT CHECKSUM SYSTEM WORKS EVERY TIME!

Using this simple system consistently ensures sufficient circuit counts for any project of any size, and automatically includes a reasonable Load Margin. All Power Supplies and Transformers are listed by voltage and number of 25 Amp circuits, thus making the specification and quotation processes faster, easier and considerably more user friendly.

FESTOON APPLICATIONS

Radiant Festoon Low Voltage Light Strips are best suited to applications where the light strips may be visible as part of the decorative nature of the installation.

Signage

Ceiling Coves

Wall Coves

Display Cases

Under-Cabinet Lighting

Shelf Lighting

Architectural Accents

Decorative Accents

Stairways

ACCESSORY DETAIL

Live End Feed

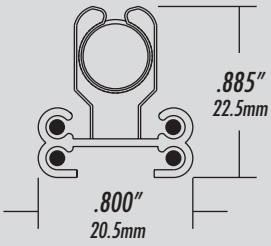
- Smallest 50 Amp connector available
- Feeds upper (lit) and lower (spare) circuits
- Compatible with romex and metal conduit
- Accepts up to 10 gauge (30 Amp) conductors
- Eliminates wire nuts, terminal blocks and junction hardware
- Connects to strip and to all four conductors with a single screw
- Silver plated contacts for superior conductivity and near-zero voltage drop through the connection
- Automatically maintains correct polarity
- UL and CUL listed, Class 1 System, suitable for installation in any locale (patents pending)

RAD 204

RAD LV 225 F *24 VOLTS, 10 WATTS*
FESTOON LOW VOLTAGE LIGHT STRIP

Lamps per foot 5.5
Watts per foot 55.0
Amps per foot 2.3
Feet per 25 amps 11.0

✔sum = 100



(actual size)

Fixture	Socket	Length	Lamp	Voltage	Wattage
❍ RAD LV 225	❍ F (festoon)	❍ 02 (2′ length) ❍ 04 (4′ length) ❍ 05 (5′ length) ❍ 06 (6′ length) ❍ 08 (8′ length) ❍ 10 (10′ length) ❍ F (linear per foot)	❍ XC (xenon clear) ❍ XF (xenon frost) ❍ IC (incandescent clear)	❍ 24 (24 volts)	❍ 10 (10 watts)

Lengths are nominal. Refer to page 41 for actual lengths
To order RAD LV 225 fixture without lamps, please specify RAD LV 225 F LENGTH only

c UL us LISTED

a Belfer/DMA design

PRODUCT FEATURES

Constructed of Proprietary Ultra High Temperature Thermoplastic (U.L. Recognized)

2.125" (54mm) on center lamp spacing

10 Watt Xenon and Incandescent Festoon Lamps available
lamp details are found on page 34

ALR, MR8 and MR11 Swivel Lamp Holders are easily inserted
swivel lamp holders are found on page 18

Electronic or Magnetic power supplies are available
power supply details are found on page 36

2 - 25 Amp Circuits, specifically designed to conform to U.L. 1598 and N.E.C. 411

Indexed Sockets lock in position to maintain lamp spacing

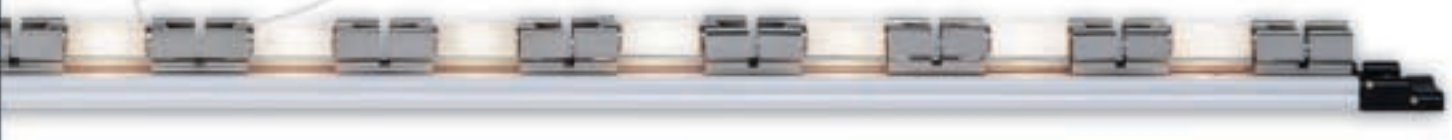
Connector Accessories are available
accessory details are found on page 32

Field Curvable to 12" radius (305mm)

Standard lengths are 2', 4', 5', 6', 8' and 10'
Lengths can be field cut

Integral Connector Assembly

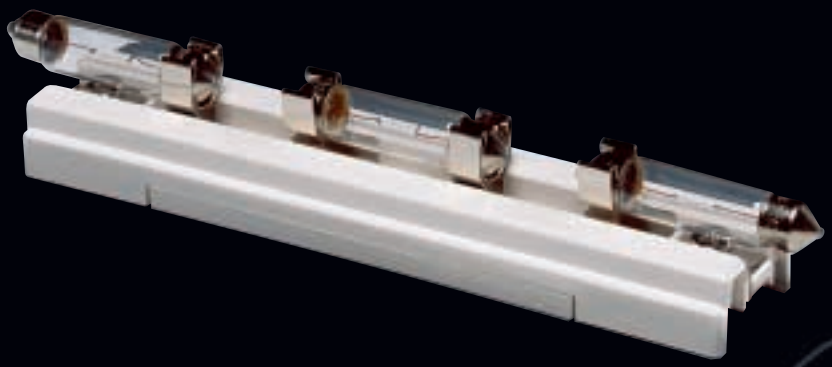
Multiple Patents Pending



ACCESSORY DETAIL

Thru Circuit Connector

- Intended for use in the middle of a 25 Amp length
- Designed to carry both 25 Amp circuits straight through a strip to strip connection
- Integral festoon sockets allow for seamless illumination through connection
- Eliminates wire nuts, terminal blocks and junction hardware
- Connects to strip and to all four conductors with a single screw
- Silver plated contacts for superior conductivity and near-zero voltage drop through the connection
- Automatically maintains correct polarity
- UL and CUL listed, Class 1 System, suitable for installation in any locale (patents pending))

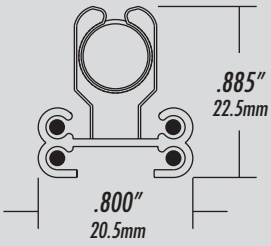


RAD 201 F

RAD LV 225 F *24 VOLTS, 5 WATTS*
FESTOON LOW VOLTAGE LIGHT STRIP

Lamps per foot 5.5
Watts per foot 27.0
Amps per foot 1.2
Feet per 25 amps 22.0

✔sum = 100



(actual size)

Fixture	Socket	Length	Lamp	Voltage	Wattage
❍ RAD LV 225	❍ F (festoon)	❍ 02 (2′ length) ❍ 04 (4′ length) ❍ 05 (5′ length) ❍ 06 (6′ length) ❍ 08 (8′ length) ❍ 10 (10′ length) ❍ F (linear per foot)	❍ XC (xenon clear) ❍ XF (xenon frost) ❍ IC (incandescent clear) ❍ IF (incandescent frost)	❍ 24 (24 volts)	❍ 5 (5 watts)

Lengths are nominal. Refer to page 41 for actual lengths
To order RAD LV 225 fixture without lamps, please specify RAD LV 225 F LENGTH only

c UL us LISTED

a Belfer/DMA design

PRODUCT FEATURES

Constructed of Proprietary Ultra High Temperature Thermoplastic (U.L. Recognized)

2.125" (54mm) on center lamp spacing

5 Watt Xenon and Incandescent Festoon Lamps available
lamp details are found on page 34

ALR, MR8 and MR11 Swivel Lamp Holders are easily inserted
swivel lamp holders are found on page 18

Electronic or Magnetic power supplies are available
power supply details are found on page 36

2 - 25 Amp Circuits, specifically designed to conform to U.L. 1598 and N.E.C. 411

Indexed Sockets lock in position to maintain lamp spacing

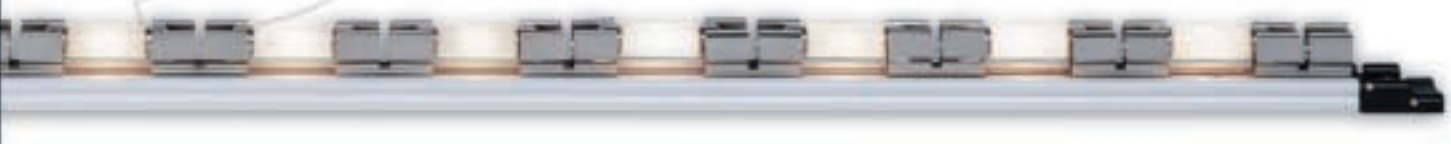
Connector Accessories are available
accessory details are found on page 32

Field Curvable to 12" radius (305mm)

Standard lengths are 2', 4', 5', 6', 8' and 10'
Lengths can be field cut

Integral Connector Assembly

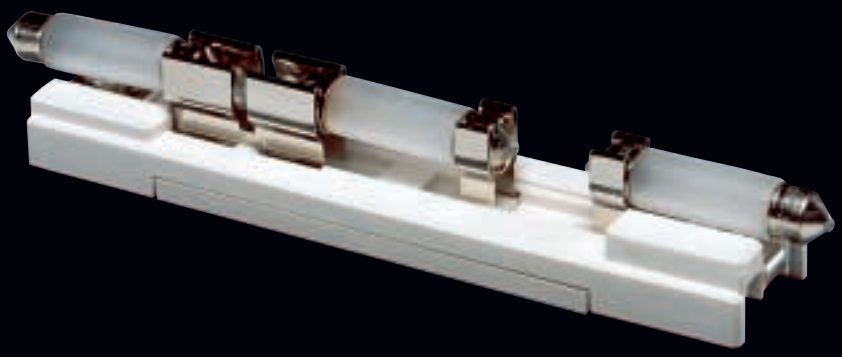
Multiple Patents Pending



ACCESSORY DETAIL

Crossover Circuit Connector

- Designed to access the second 25 Amp circuit while automatically terminating the first
- Intended for use at the end of the first 25 Amp length to provide power for the second 25 Amp length
- Integral festoon sockets allow for seamless illumination through connection
- Eliminates wire nuts, terminal blocks and junction hardware
- Connects to strip and to all four conductors with a single screw
- Silver plated contacts for superior conductivity and near-zero voltage drop through the connection
- Automatically maintains correct polarity
- UL and CUL listed, Class 1 System, suitable for installation in any locale (patents pending)

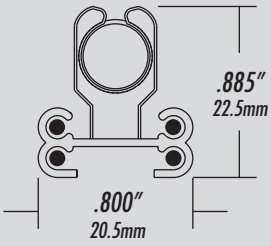


RAD 203 F

RAD LV 225 F *24 VOLTS, 3 WATTS*
FESTOON LOW VOLTAGE LIGHT STRIP

Lamps per foot 5.5
Watts per foot 16.5
Amps per foot 1.0
Feet per 25 amps 36.0

✔sum = 100



(actual size)

Fixture	Socket	Length	Lamp	Voltage	Wattage
❍ RAD LV 225	❍ F (festoon)	❍ 02 (2′ length) ❍ 04 (4′ length) ❍ 05 (5′ length) ❍ 06 (6′ length) ❍ 08 (8′ length) ❍ 10 (10′ length) ❍ F (linear per foot)	❍ XC (xenon clear) ❍ XF (xenon frost) ❍ IC (incandescent clear)	❍ 24 (24 volts)	❍ 3 (3 watts)

Lengths are nominal. Refer to page 41 for actual lengths
To order RAD LV 225 fixture without lamps, please specify RAD LV 225 F LENGTH only

c UL us LISTED

a Belfer/DMA design

PRODUCT FEATURES

Constructed of Proprietary Ultra High Temperature Thermoplastic (U.L. Recognized)

2.125" (54mm) on center lamp spacing

3 Watt Xenon and Incandescent Festoon Lamps available
lamp details are found on page 34

ALR, MR8 and MR11 Swivel Lamp Holders are easily inserted
swivel lamp holders are found on page 18

Electronic or Magnetic power supplies are available
power supply details are found on page 36

2 - 25 Amp Circuits, specifically designed to conform to U.L. 1598 and N.E.C. 411

Indexed Sockets lock in position to maintain lamp spacing

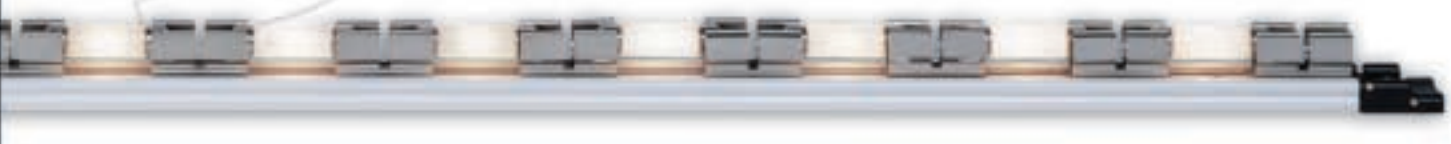
Connector Accessories are available
accessory details are found on page 32

Field Curvable to 12" radius (305mm)

Standard lengths are 2', 4', 5', 6', 8' and 10'
Lengths can be field cut

Integral Connector Assembly

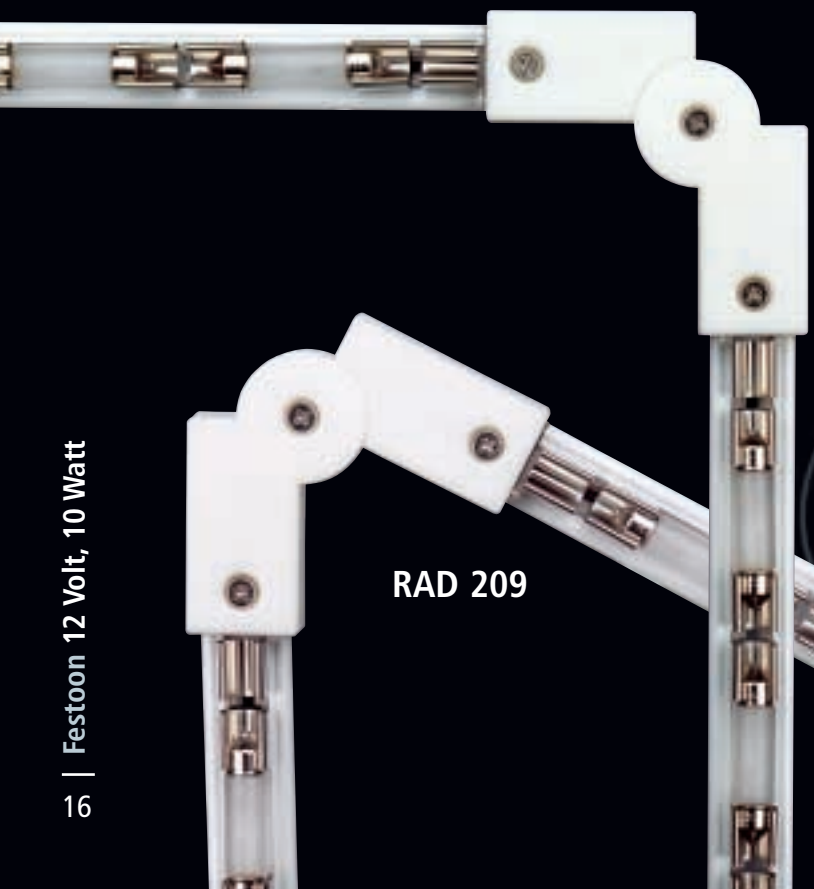
Multiple Patents Pending



ACCESSORY DETAIL

Thru Circuit Adjustable Angle Corner Connection

- Allows an adjustable 0º to 180º angle connection between strips
- Designed to carry both 25 Amp circuits straight through a strip to strip connection
- Eliminates wire nuts, terminal blocks and junction hardware
- Connects to strip and to all four conductors with a single screw
- Silver plated contacts for superior conductivity and near-zero voltage drop through the connection
- Automatically maintains correct polarity
- UL and CUL listed, Class 1 System, suitable for installation in any locale (patents pending)

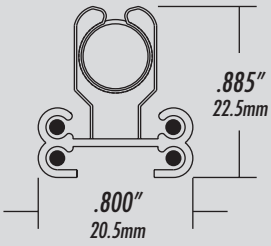


RAD 209

RAD LV 225 F *12 VOLTS, 10 WATTS*
FESTOON LOW VOLTAGE LIGHT STRIP

Lamps per foot 5.5
Watts per foot 55.0
Amps per foot 4.6
Feet per 25 amps 5.0

✔sum = 50



(actual size)

Fixture	Socket	Length	Lamp	Voltage	Wattage
❍ RAD LV 225	❍ F (festoon)	❍ 02 (2′ length) ❍ 04 (4′ length) ❍ 05 (5′ length) ❍ 06 (6′ length) ❍ 08 (8′ length) ❍ 10 (10′ length) ❍ F (linear per foot)	❍ XC (xenon clear) ❍ XF (xenon frost) ❍ IC (incandescent clear)	❍ 12 (12 volts)	❍ 10 (10 watts)

Lengths are nominal. Refer to page 41 for actual lengths
To order RAD LV 225 fixture without lamps, please specify RAD LV 225 F LENGTH only

c UL us LISTED

a Belfer/DMA design

PRODUCT FEATURES

Constructed of Proprietary Ultra High Temperature Thermoplastic (U.L. Recognized)

2.125" (54mm) on center lamp spacing

10 Watt Xenon and Incandescent Festoon Lamps available
lamp details are found on page 34

ALR, MR8 and MR11 Swivel Lamp Holders are easily inserted
swivel lamp holders are found on page 18

Electronic or Magnetic power supplies are available
power supply details are found on page 36

2 - 25 Amp Circuits, specifically designed to conform to U.L. 1598 and N.E.C. 411

Indexed Sockets lock in position to maintain lamp spacing

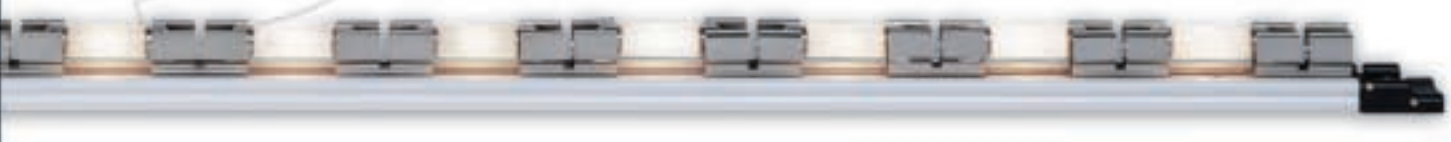
Connector Accessories are available
accessory details are found on page 32

Field Curvable to 12" radius (305mm)

Standard lengths are 2', 4', 5', 6', 8' and 10'
Lengths can be field cut

Integral Connector Assembly

Multiple Patents Pending



ACCESSORY DETAIL

RAD 301

RAD 302

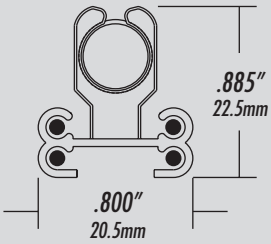
Swivel Lamp Holders

- Allow the use of Micro Reflector or Aluminum Reflector Halogen lamps in the linear light strip
  - 20 watt (max) MR8 or MR11 lamps (RAD 301)
  - 20 watt (max) ALR lamps (RAD 302)
- Specialty lampholders snap directly into the standard festoon socket in any location
- Exclusive locking mechanism allows for easy positioning and maintenance of aiming selections
- Available for use in festoon fixtures only
- UL and CUL listed, Class 1 System, suitable for installation in any locale (patents pending)

RAD LV 225 F *12 VOLTS, 5 WATTS*
FESTOON LOW VOLTAGE LIGHT STRIP

Lamps per foot 5.5
Watts per foot 27.5
Amps per foot 2.3
Feet per 25 amps 11.0

✔**sum = 50**



(actual size)

Fixture	Socket	Length	Lamp	Voltage	Wattage
❍ RAD LV 225	❍ F (festoon)	❍ 02 (2′ length) ❍ 04 (4′ length) ❍ 05 (5′ length) ❍ 06 (6′ length) ❍ 08 (8′ length) ❍ 10 (10′ length) ❍ F (linear per foot)	❍ XC (xenon clear) ❍ XF (xenon frost) ❍ IC (incandescent clear) ❍ IF (incandescent frost)	❍ 12 (12 volts)	❍ 5 (5 watts)

Lengths are nominal. Refer to page 41 for actual lengths
To order RAD LV 225 fixture without lamps, please specify RAD LV 225 F LENGTH only

c UL us LISTED

a Belfer/DMA design

PRODUCT FEATURES

Constructed of Proprietary Ultra High Temperature Thermoplastic (U.L. Recognized)

2.125" (54mm) on center lamp spacing

5 Watt Xenon and Incandescent Festoon Lamps available
lamp details are found on page 34

ALR, MR8 and MR11 Swivel Lamp Holders are easily inserted
swivel lamp holders are found on page 18

Electronic or Magnetic power supplies are available
power supply details are found on page 36

2 - 25 Amp Circuits, specifically designed to conform to U.L. 1598 and N.E.C. 411

Indexed Sockets lock in position to maintain lamp spacing

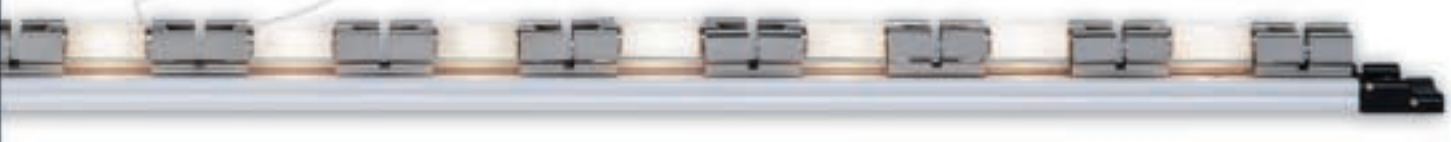
Connector Accessories are available
accessory details are found on page 32

Field Curvable to 12" radius (305mm)

Standard lengths are 2', 4', 5', 6', 8' and 10'
Lengths can be field cut

Integral Connector Assembly

Multiple Patents Pending



RIGID LOOP APPLICATIONS

Radiant Rigid Loop Low Voltage Light Strips are best suited to applications where lamp replacement and maintenance are priority considerations.

Sign/Backlighting

Ceiling Coves

Wall Coves

Display Cases

Under-Cabinet Lighting

Shelf Lighting

Architectural Accents

Decorative Accents

ACCESSORY DETAIL

Live End Feed

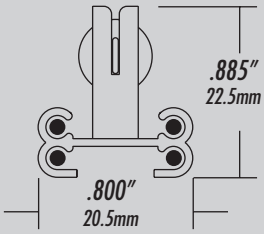
- Smallest 50 Amp connector available
- Feeds upper (lit) and lower (spare) circuits
- Compatible with romex and metal conduit
- Accepts up to 10 gauge (30 Amp) conductors
- Eliminates wire nuts, terminal blocks and junction hardware
- Connects to strip and to all four conductors with a single screw
- Silver plated contacts for superior conductivity and near-zero voltage drop through the connection
- Automatically maintains correct polarity
- UL and CUL listed, Class 1 System, suitable for installation in any locale (patents pending)

RAD 204

RAD LV 225 L *24 VOLTS, 10 WATTS*
RIGID LOOP LOW VOLTAGE LIGHT STRIP

Lamps per foot 5.5
Watts per foot 55.0
Amps per foot 2.3
Feet per 25 amps 11.0

✔**sum = 100**



(actual size)

Fixture	Socket	Length	Lamp	Voltage	Wattage
❍ RAD LV 225	❍ L (rigid loop)	❍ 02 (2′ length) ❍ 04 (4′ length) ❍ 05 (5′ length) ❍ 06 (6′ length) ❍ 08 (8′ length) ❍ 10 (10′ length) ❍ F (linear per foot)	❍ XC (xenon clear) ❍ XF (xenon frost)	❍ 24 (24 volts)	❍ 10 (10 watts)

Lengths are nominal. Refer to page 41 for actual lengths
To order RAD LV 225 fixture without lamps, please specify RAD LV 225 L LENGTH only

c UL us LISTED

a Belfer/DMA design

PRODUCT FEATURES

Constructed of Proprietary Ultra High Temperature Thermoplastic (U.L. Recognized)

2.125" (54mm) on center lamp spacing

10 Watt Xenon Rigid Loop Lamps are available
lamp details are found on page 34

Electronic or Magnetic power supplies are available
power supply details are found on page 36

2 - 25 Amp Circuits, specifically designed to conform to U.L. 1598 and N.E.C. 411

Indexed Sockets lock in position to maintain lamp spacing

Connector Accessories are available
accessory details are found on page 32

Field Curvable to 12" radius (305mm)

Standard lengths are 2', 4', 5', 6', 8' and 10'
Lengths can be field cut

Integral Connector Assembly

Multiple Patents Pending

ACCESSORY DETAIL

Thru Circuit Connector

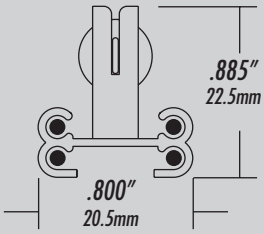
- Intended for use in the middle of a 25 Amp length
- Designed to carry both 25 Amp circuits straight through a strip to strip connection
- Integral rigid loop sockets allow for seamless illumination through connection
- Eliminates wire nuts, terminal blocks and junction hardware
- Connects to strip and to all four conductors with a single screw
- Silver plated contacts for superior conductivity and near-zero voltage drop through the connection
- Automatically maintains correct polarity
- UL and CUL listed, Class 1 System, suitable for installation in any locale (patents pending)

RAD 201 L

RAD LV 225 L *24 VOLTS, 5 WATTS*
RIGID LOOP LOW VOLTAGE LIGHT STRIP

Lamps per foot 5.5
Watts per foot 27.5
Amps per foot 1.2
Feet per 25 amps 22.0

✔sum = 100



(actual size)

Fixture	Socket	Length	Lamp	Voltage	Wattage
❍ RAD LV 225	❍ L (rigid loop)	❍ 02 (2′ length) ❍ 04 (4′ length) ❍ 05 (5′ length) ❍ 06 (6′ length) ❍ 08 (8′ length) ❍ 10 (10′ length) ❍ F (linear per foot)	❍ XC (xenon clear) ❍ XF (xenon frost)	❍ 24 (24 volts)	❍ 5 (5 watts)

Lengths are nominal. Refer to page 41 for actual lengths
To order RAD LV 225 fixture without lamps, please specify RAD LV 225 L LENGTH only

c UL us LISTED

a Belfer/DMA design

PRODUCT FEATURES

Constructed of Proprietary Ultra High Temperature Thermoplastic (U.L. Recognized)

2.125" (54mm) on center lamp spacing

5 Watt Xenon Rigid Loop Lamps are available
lamp details are found on page 34

Electronic or Magnetic power supplies are available
power supply details are found on page 36

2 - 25 Amp Circuits, specifically designed to conform to U.L. 1598 and N.E.C. 411

Indexed Sockets lock in position to maintain lamp spacing

Connector Accessories are available
accessory details are found on page 32

Field Curvable to 12" radius (305mm)

Standard lengths are 2', 4', 5', 6', 8' and 10'
Lengths can be field cut

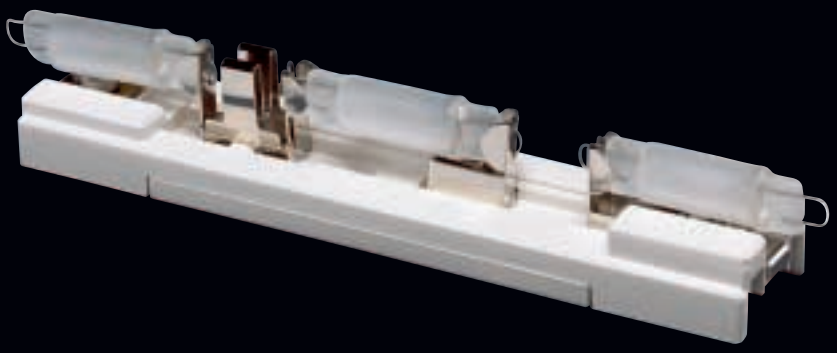
Integral Connector Assembly

Multiple Patents Pending

ACCESSORY DETAIL

Crossover Circuit Connector

- Designed to access the second 25 Amp circuit while automatically terminating the first
- Intended for use at the end of the first 25 Amp length to provide power for the second 25 Amp length
- Integral rigid loop sockets allow for seamless illumination through connection
- Eliminates wire nuts, terminal blocks and junction hardware
- Connects to strip and to all four conductors with a single screw
- Silver plated contacts for superior conductivity and near-zero voltage drop through the connection
- Automatically maintains correct polarity
- UL and CUL listed, Class 1 System, suitable for installation in any locale
  (patents pending)

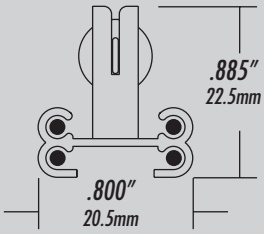


RAD 203L

RAD LV 225 F *12 VOLTS, 10 WATTS*
RIGID LOOP LOW VOLTAGE LIGHT STRIP

Lamps per foot 5.5
Watts per foot 55.0
Amps per foot 4.6
Feet per 25 amps 5.0

✔**sum = 50**



(actual size)

Fixture	Socket	Length	Lamp	Voltage	Wattage
❍ RAD LV 225	❍ L (rigid loop)	❍ 02 (2′ length) ❍ 04 (4′ length) ❍ 05 (5′ length) ❍ 06 (6′ length) ❍ 08 (8′ length) ❍ 10 (10′ length) ❍ F (linear per foot)	❍ XC (xenon clear) ❍ XF (xenon frost)	❍ 12 (12 volts)	❍ 10 (10 watts)

Lengths are nominal. Refer to page 41 for actual lengths
To order RAD LV 225 fixture without lamps, please specify RAD LV 225 L LENGTH only

c UL us LISTED

a Belfer/DMA design

PRODUCT FEATURES

Constructed of Proprietary Ultra High Temperature Thermoplastic (U.L. Recognized)

2.125" (54mm) on center lamp spacing

10 Watt Xenon Rigid Loop Lamps are available
lamp details are found on page 34

Electronic or Magnetic power supplies are available
power supply details are found on page 36

2 - 25 Amp Circuits, specifically designed to conform to U.L. 1598 and N.E.C. 411

Indexed Sockets lock in position to maintain lamp spacing

Connector Accessories are available
accessory details are found on page 32

Field Curvable to 12" radius (305mm)

Standard lengths are 2', 4', 5', 6', 8' and 10'
Lengths can be field cut

Integral Connector Assembly

Multiple Patents Pending

ACCESSORY DETAIL

Thru Circuit Adjustable Angle Corner Connection

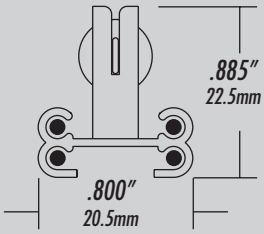
- Allows an adjustable 0° to 180° angle connection between strips.
- Designed to carry both 25 Amp circuits straight through a strip to strip connection
- Eliminates wire nuts, terminal blocks and junction hardware
- Connects to strip and to all four conductors with a single screw
- Silver plated contacts for superior conductivity and near-zero voltage drop through the connection
- Automatically maintains correct polarity
- UL and CUL listed, Class 1 System, suitable for installation in any locale (patents pending)

RAD 209

RAD LV 225 F *12 VOLTS, 5 WATTS*
RIGID LOOP LOW VOLTAGE LIGHT STRIP

Lamps per foot 5.5
Watts per foot 27.0
Amps per foot 2.3
Feet per 25 amps 11.0

✔sum = 50



(actual size)

Fixture	Socket	Length	Lamp	Voltage	Wattage
❍ RAD LV 225	❍ L (rigid loop)	❍ 02 (2′ length) ❍ 04 (4′ length) ❍ 05 (5′ length) ❍ 06 (6′ length) ❍ 08 (8′ length) ❍ 10 (10′ length) ❍ F (linear per foot)	❍ XC (xenon clear) ❍ XF (xenon frost)	❍ 12 (12 volts)	❍ 5 (5 watts)

Lengths are nominal. Refer to page 41 for actual lengths
To order RAD LV 225 fixture without lamps, please specify RAD LV 225 L LENGTH only

c UL us LISTED

a Belfer/DMA design

PRODUCT FEATURES

Constructed of Proprietary Ultra High Temperature Thermoplastic (U.L. Recognized)

2.125" (54mm) on center lamp spacing

5 Watt Xenon Rigid Loop Lamps are available
lamp details are found on page 34

Electronic or Magnetic power supplies are available
power supply details are found on page 36

2 - 25 Amp Circuits, specifically designed to conform to U.L. 1598 and N.E.C. 411

Indexed Sockets lock in position to maintain lamp spacing

Connector Accessories are available
accessory details are found on page 32

Field Curvable to 12" radius (305mm)

Standard lengths are 2', 4', 5', 6', 8' and 10'
Lengths can be field cut

Integral Connector Assembly

Multiple Patents Pending

ACCESSORY DETAIL

RAD 202
Thru Circuit Flexible Connector

- Can be field modified to crossover circuit
- Designed to carry both 25 Amp circuits straight through a strip to strip connection
- Eliminates wire nuts, terminal blocks and junction hardware
- Connects to strip and to all four conductors with a single screw
- Silver plated contacts for superior conductivity and near-zero voltage drop through the connection
- Automatically maintains correct polarity
- Can be field modified to crossover circuit
- UL and CUL listed, Class 1 System, suitable for installation in any locale (patents pending)

RAD 210
Universal Thru Circuit Connector Feed (Not Shown)

- Single circuit connection when no second 25 Amp circuit required
- Can be mounted in any location along the length of the strip
- Eliminates wire nuts, terminal blocks and junction hardware
- Silver plated contacts for superior conductivity and near-zero voltage drop through the connection
- Automatically maintains correct polarity
- UL and CUL listed, Class 1 System, suitable for installation in any locale (patents pending)

RAD 202

RAD 401
Dead End Termination

- For termination of field cut pieces
- No tools required
  (4 count)

RAD 402
Mounting Clip

- Exclusive slot allows for extra easy installation
- Secures strip to surface
- Snaps tightly to strip
- Can be positioned anywhere
- Two mounting options
- Exclusive slot allows for extra easy installation
  (4 count)

RAD 403
Right Angle Bracket

- Useful for curves and compound curves
- Secures strip to surface
- Snaps tightly to strip
- Can be positioned anywhere
- Two mounting options
  (4 count)

RAD 401

RAD 402

RAD 403

ACCESSORIES:

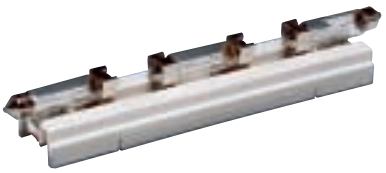
Strip to Strip Connectors

Radiant Strip to Strip Connectors are precision engineered to allow for a variety of creative installations.

Intended for use in the middle of a 25 Amp length, each connector:

- eliminates wire nuts, terminal blocks and junction hardware
- connects all four conductors with a single screw per strip
- utilizes silver plated contacts for superior conductivity and near-zero voltage drop through the connection
- automatically maintains correct polarity

Radiant Strip to Strip connectors are UL and CUL listed, Class 1 System, suitable for installation in any locale. (patents pending)

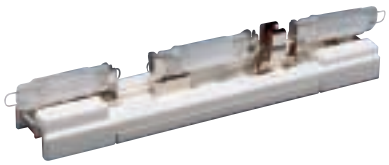


❍ **RAD 201F** **Thru Circuit Connector (Festoon)**
Designed to carry both 25 Amp circuits straight through a strip to strip connection. Integral festoon sockets allow for seamless illumination through connection.
(see page 12 for details)

❍ **RAD 201L** **Thru Circuit Connector (Rigid Loop)**
Designed to carry both 25 Amp circuits straight through a strip to strip connection. Integral rigid loop sockets allow for seamless illumination through connection.
(see page 24 for details)

❍ **RAD 202** **Thru Circuit Flexible Connector**
Designed to carry both 25 Amp circuits straight through a strip to strip connection.
(see page 30 for details)

❍ **RAD 203F** **Crossover Circuit Connector (Festoon)**
Designed to access the second 25 Amp circuit while automatically terminating the first. Integral festoon sockets allow for seamless illumination through connection.
(see page 14 for details)



❍ **RAD 203L** **Crossover Circuit Connector (Rigid Loop)**
Designed to access the second 25 Amp circuit while automatically terminating the first. Integral rigid loop sockets allow for seamless illumination through connection.
(see page 26 for details)

❍ **RAD 204** **Live End Feed**
Designed to feed upper (lit) and lower (spare) circuits. Compatible with romex or metal conduit.
(see page 10 and 22 for details)

❍ **RAD 209** **Thru Circuit Adjustable Angle Corner Connection**
Designed to carry both 25 Amp circuits straight through a strip to strip connection while allowing an adjustable 0º to 180º angle connection between strips.
(see page 16 and 28 for details)

❍ **RAD 210** **Universal Thru Circuit Connector Feed (not shown)**
Designed to allow for a single circuit connection when no second 25 Amp circuit is required
(see page 30 for details)

ACCESSORIES:

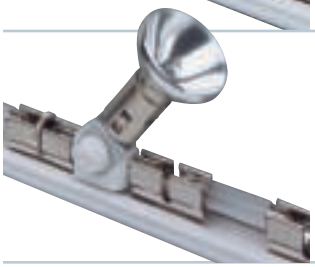
Aimable Lamp Holders

Radiant Aimable Lamp Holders allow the use of MR, ALR or Halogen lamps in the linear light strip.

- specialty lampholders snap directly into the standard festoon socket in any location
- exclusive locking mechanism allows for easy positioning and maintenance of aiming selections

Radiant Aimable Lamp Holders are UL and CUL listed, Class 1 System, suitable for installation in any locale. (patents pending)

❍ **RAD 301** **MR8/MR11 Locking Swivel Lamp Holder**
20 watt (max) MR8 or MR11 lamps
Festoon fixture only
(see page 18 for details)



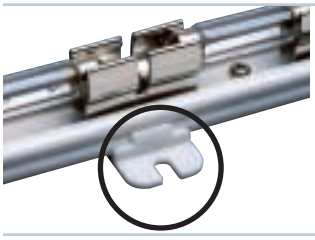
❍ **RAD 302** **ALR Locking Swivel Lamp Holder**
20 watt (max)
Festoon fixture only
(see page 18 for details)

❍ **RAD 303** **Halogen Insert Lamp Holder (not shown)**
10 watt or 20 watt (max)
Exclusive tempered glass surround
Festoon fixture only

Miscellaneous

Down to the smallest details, Radiant Low Voltage Light Strips are designed with the application in mind. (patents pending)

❍ **RAD 401** **Dead End Termination (4 count)**
No tools are required for termination of field cut pieces
(see page 31 for details)



❍ **RAD 402** **Mounting Clip (4 count)**
Secures strip to surface
Exclusive slot allows for extra easy installation
(see page 31 for details)

❍ **RAD 403** **Right Angle Bracket (4 count)**
Useful for curves and compound curves
(see page 31 for details)

LAMP SPECIFICATIONS

RAD LV225 FESTOON FIXTURE

FESTOON TECHNICAL INFORMATION

FIXTURE	DESCRIPTION	# LAMPS/ F00T	WATTS	WATTS/ FOOT	VOLTS	AMPS/ FOOT	FEET/ 25 AMPS
FT 1210 X	10W 12V Xenon Clear Festoon	5.5	10	55.0	12	4.60	5
FT 1210 X F	10W 12V Xenon Frost Festoon	5.5	10	55.0	12	4.60	5
FT 1210	10W 12V Incandescent Clear Festoon	5.5	10	55.0	12	4.60	5
FT 1205 X	5W 12V Xenon Clear Festoon	5.5	5	27.5	12	2.30	11
FT 1205 X F	5W 12V Xenon Frost Festoon	5.5	5	27.5	12	2.30	11
FT 1205	5W 12V Incandescent Clear Festoon	5.5	5	27.5	12	2.30	11
FT 1205 F	5W 12V Incandescent Frost Festoon	5.5	5	27.5	12	2.30	11
FT 2410 X	10W 24V Xenon Clear Festoon	5.5	10	55.0	24	2.30	11
FT 2410 X F	10W 24V Xenon Frost Festoon	5.5	10	55.0	24	2.30	11
FT 2410	10W 24V Incandescent Clear Festoon	5.5	10	55.0	24	2.30	11
FT 2405 X	5W 24V Xenon Clear Festoon	5.5	5	27.5	24	1.20	22
FT 2405 X F	5W 24V Xenon Frost Festoon	5.5	5	27.5	24	1.20	22
FT 2405	5W 24V Incandescent Clear Festoon	5.5	5	27.5	24	1.20	22
FT 2405 F	5W 24V Incandescent Frost Festoon	5.5	5	27.5	24	1.20	22
FT 2403 X	3W 24V Xenon Clear Festoon	5.5	3	16.5	24	1.00	36
FT 2403 X F	3W 24V Xenon Frost Festoon	5.5	3	16.5	24	1.00	36
FT 2403	3W 24V Incandescent Clear Festoon	5.5	3	16.5	24	1.00	36
FT 2403 R	3W 24V Incandescent Red	5.5	3	16.5	24	1.00	36
FT 2403 G	3W 24V Incandescent Green	5.5	3	16.5	24	1.00	36
FT 2403 B	3W 24V Incandescent Blue	5.5	3	16.5	24	1.00	36
FT 2403 Y	3W 24V Incandescent Yellow	5.5	3	16.5	24	1.00	36

RAD LV225 RIGID LOOP FIXTURE

RIGID LOOP TECHNICAL INFORMATION

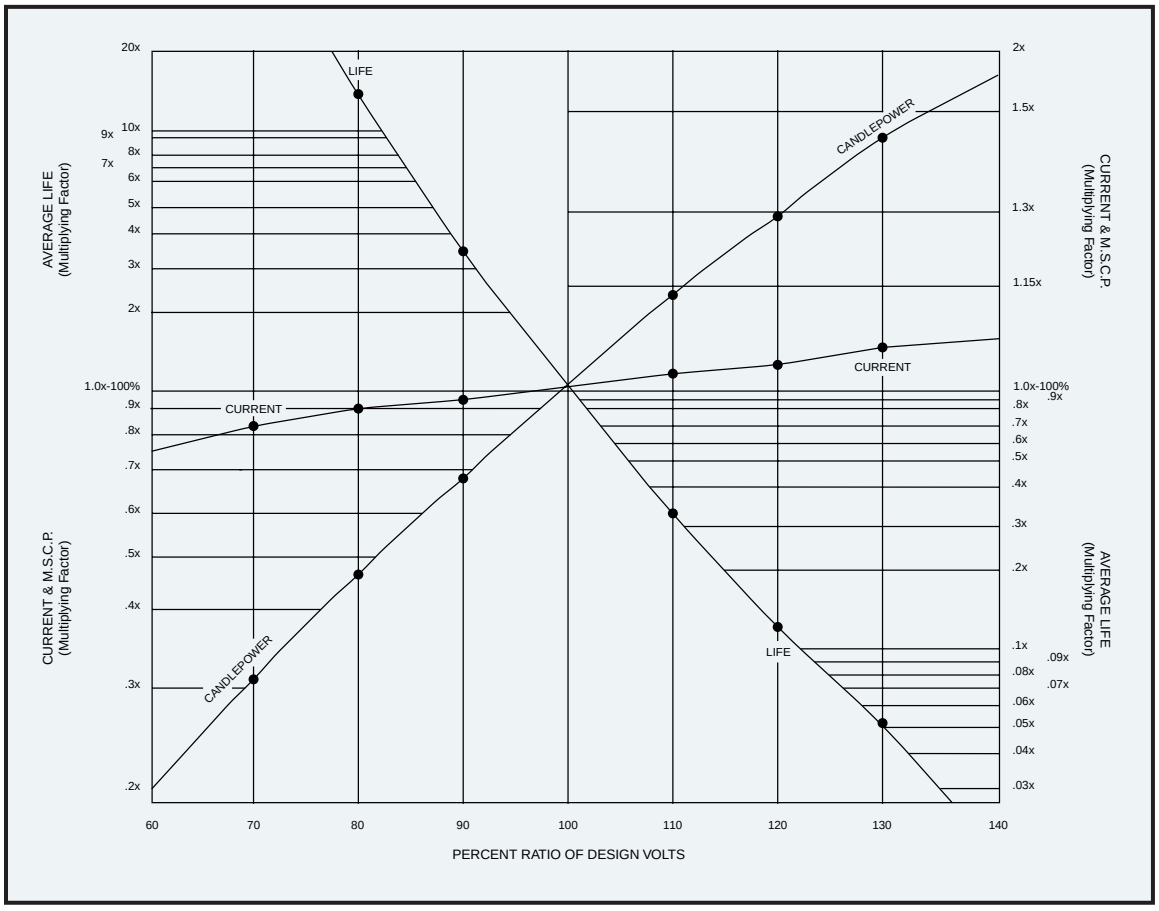
FIXTURE	DESCRIPTION	# LAMPS/ F00T	WATTS	WATTS/ FOOT	VOLTS	AMPS/ FOOT	FEET/ 25 AMPS
RLB 1210	10W 12V Xenon Clear Rigid Loop	5.5	10	55.0	12	4.58	5
RLB 1210 F	10W 12V Xenon Frost Rigid Loop	5.5	10	55.0	12	4.58	5
RLB 1205	5W 12V Xenon Clear Rigid Loop	5.5	5	27.5	12	2.29	11
RLB 1205 F	5W 12V Xenon Frost Rigid Loop)	5.5	5	27.5	12	2.29	11
RLB 2410	10W 24V Xenon Clear Rigid Loop	5.5	10	55.0	24	2.29	11
RLB 2410 F	10W 24V Xenon Frost Rigid Loop	5.5	10	55.0	24	2.29	11
RLB 2405	5W 24V Xenon Clear Rigid Loop	5.5	5	27.5	24	1.15	22
RLB 2405 F	5W 24V Xenon Frost Rigid Loop	5.5	5	27.5	24	1.15	22

LAMP SPECIFICATIONS

Before a new lamp design is proposed for an application, a thorough search should be made of available lamp types to determine whether an existing lamp can be rerated to meet user needs. Reviewing lamp specifications in this section can help determine whether an existing lamp will meet specific needs or, if not, which rerated lamps will satisfy user requirements. The three basic formulas that apply to rerating incandescent lamps are:

RERATED M.S.C.P =	RERATED current =	RERATED life =
$\left[\frac{V}{V_1}\right]^{3.5}$ X M.S.C.P. AT DESIGN VOLTS	$\left[\frac{V}{V_1}\right]^{.55}$ X CURRENT AT DESIGN VOLTS	$\left[\frac{V_1}{V}\right]^{12}$ X LIFE AT DESIGN VOLTS

V = APPLICATION VOLTAGE **V_1 = DESIGN VOLTAGE**



This graph illustrates the manner in which current, candlepower and life performance vary with percent changes in applied voltage. These values are typical for miniature and subminiature lamps.

LIFE

Average life hours are based on rated voltage, 60 cycle alternating current in a room temperature ambient environment, under static conditions. Dimmed halogen cycle lamps require periodic operation at design voltage to avoid blackening and reduced life.

CONVERTING BRIGHTNESS VALUES

Mean Spherical Candle Power (M.S.C.P.) is convertible to lumens by a factor of 4 π.

JUST A WORD ABOUT POWER SUPPLIES . . .

Belfer Group works closely with premium electronic and magnetic transformer manufacturers to select and test quality transformers and components in order to assure the most reliable fixture operation. To assist the Specifier in choosing the proper Power Supply for their application, we offer these descriptions of the different types of Power Supplies and the protection and safety devices utilized with our low voltage systems.

MAGNETIC POWER SUPPLIES:
Specifically engineered to handle the rigors of larger applications, Belfer Group Magnetic Power Supplies incorporate a range of technical features designed to provide consistent power for years of quiet, trouble-free performance. All Belfer Group Magnetic Power Supplies are engineered around ferrite cores and copper coils 25% larger than standard commercial transformers of identical power rating, a feature critical in minimizing voltage drop. These oversized components allow our Power Supplies to run cooler and quieter than cheaper alternatives, an important consideration where noise and/or dimming is of concern. All Belfer Group Magnetic Power Supplies are full range dimmable, and each is equipped with heavy duty, UL/NEC compliant, resettable overcurrent/short circuit protection devices to protect each 25 Amp secondary (output) circuit.

ELECTRONIC POWER SUPPLIES:
Perfect for smaller installations, our standard Electronic Power Supplies carry a Class A sound rating and offer a range of professional grade features. All Belfer Group Electronic Power Supplies are equipped with integral short circuit, overcurrent and thermal protection. The 60 and 75 watt units have switched resets, while the 150 and 300 watt units are auto-resetting. All Belfer Group Electronic Power Supplies are full range dimmable and feature Soft-Start circuitry for extended lamp life and added technical aesthetic.

QTRAN™ POWER SUPPLIES:
Many Specifiers rely upon the quality and performance of QTran Power Supplies for their low voltage lighting projects. Belfer Group is pleased to offer an extensive range of QTran equipment, specifically designed and selected for compatibility with our low voltage lighting fixtures. Please consult our sales department for additional information regarding the features and options available with these units.

REMOTE LOAD CENTERS:
Radiant Linear Low Voltage lighting fixtures are UL and CUL listed, Class 1 systems. Our exclusive Remote Load Centers provide the required overcurrent protection necessary to maintain these safety listings and overall system integrity in installations where properly sized transformers are supplied by others.

DIMMING:
All Belfer Group Power Supplies are suitable for use in applications which require dimming. Electronic Power Supplies are 100% compatible with trailing edge (reverse phase control, FET type) electronic dimming equipment. Magnetic Power Supplies are 100% compatible with dimming equipment designed to operate inductive loads. Lutron™ dimming is recommended, as are similar systems from other specification grade dimming manufacturers.

POWER SUPPLY WARRANTIES:
At Belfer Group, we use only the best grade of power components from top rated manufacturers. All Belfer Group Power Supplies are protected from defects in materials and workmanship by our factory warranty for a period of one year. The primary component manufacturers afford additional warranty protection, pro rata, for periods of up to five years. These warranties are passed through to our customers. QTran Power Supplies are warranted by QTran for up to five years. There are varying terms and conditions that may apply to your specific installation. Copies of the Belfer Group warranty, and those of QTran and other primary component manufacturers, are available upon request.

POWER SUPPLIES

Power Supply	Wattage	Voltage	Circuits/Amp
Magnetic Power Supplies			
❍ RPM300-12	300	12	1/25A
❍ RPM600-12	600	12	2/25A
❍ RPM600-24	600	24	1/25A
❍ RPM1200-24	1200	24	2/25A
Electronic Power Supplies			
❍ RPE75-12	75	12	1/6A
❍ RPE150-12	150	12	1/12.5A
❍ RPE300-12	300	12	1/25A
❍ RPE75-24	75	24	1/3A
❍ RPE150-24	150	24	1/6A
❍ RPE300-24	300	24	1/12.5A
QTran™ Magnetic Power Supplies (with circuit breaker and choke)			
❍ QX150-1/15-CK-S	150	12/24	1
❍ QX300-1/25-CK-S	300	12/24	1
❍ QX450-1/25-CK-L	450	12/24	1
❍ QX450-2/25-CK-L	450	12/24	2
❍ QX600-1/25-CK-L	600	12/24	1
❍ QX600-2/25-CK-L	600	12/24	2
❍ QX750-1 CT-CK-L	750	12/24	1
❍ QX750-2 CT-CK-L	750	12/24	2
❍ QZ1200-2 CT-CK-L	1200	12/24	2

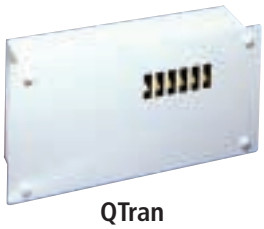
Remote Load Centers (required if transformers are supplied by others)

RLC-1 BGI Remote Load Center-1 Circuit Breaker, 25A

RLC-2 BGI Remote Load Center - 2 Circuit Breaker, 25A

RPM

RPE



QTran

RLC

Radiant Low Voltage Power Supplies are U.L. Listed and designed with 25 Amp overcurrent protection per circuit to be in compliance with N.E.C. 411. Radiant Low Voltage Lighting Systems can be supplied with QTran™ power supplies as specified. Other power supply configurations can be designed to meet your specific requirements. Please consult factory.

MAXIMUM FEET PER TRANSFORMER

Item	Description	Watts per Xfmr	10 Watt Max. Feet per Xfmr	5 Watt Max. Feet per Xfmr	3 Watt Max. Feet per Xfmr
			55.0 w/ft	27.5 w/ft	16.5 w/ft
12 volt magnetic power supplies					
RPM300-12	Belfer Group Magnetic 300W 12V - 1 C.B.	300	5	10	18
RPM600-12	Belfer Group Magnetic 600W 12V - 2 C.B.	600	10	21	36
24 volt magnetic power supplies					
RPM600-24	Belfer Group Magnetic 600W 24V - 1 C.B.	600	10	21	36
RPM1200-24	Belfer Group Magnetic 1200W 24V - 2 C.B.	1200	21	43	72
12 volt electronic power supplies					
RPE75-12	Belfer Group Electronic 75W 12V	75	1	2	4
RPE150-12	Belfer Group Electronic 150W 12V	150	2	5	9
RPE300-12	Belfer Group Electronic 300W 12V	300	5	10	18
24 volt electronic power supplies					
RPE75-24	Belfer Group Electronic 75W 24V	75	1	2	4
RPE150-24	Belfer Group Electronic 150W 24V	150	2	5	9
RPE300-24	Belfer Group Electronic 300W 24V	300	5	10	18
12/24 volt QTran™ magnetic power supplies (with circuit breaker & choke)					
QX150-1/15-CK-S	QTRAN Magnetic 150W 12/24V - 1 C.B.	150	9	5	2
QX300-1/25-CK-S	QTRAN Magnetic 300W 12/24V - 1 C.B.	300	18	10	5
QX450-1/25-CK-L	QTRAN Magnetic 450W 12/24V - 1 C.B.	450	27	16	8
QX450-2/25-CK-L	QTRAN Magnetic 450W 12/24V - 2 C.B.	450	27	16	8
QX600-1/25-CK-L	QTRAN Magnetic 600W 12/24V - 1 C.B.	600	36	21	10
QX600-2/25-CK-L	QTRAN Magnetic 600W 12/24V - 2 C.B.	600	36	21	10
QX750-1 CT-CK-L	QTRAN Magnetic 750W 12/24V - 1 C.B.	750	45	27	13
QX750-2 CT-CK-L	QTRAN Magnetic 750W 12/24V - 2 C.B.	750	45	27	13
QZ1200-2 CT-CK-L	QTRAN Magnetic 1200W 12/24V - 2 C.B.	1200	72	43	21

TRANSFORMERS PER STRIP

Feet/ Strip	Lamps/ Strip	Watts/ Strip	Magnetic Transformer	Electronic Transformer	QTran Transformer
10 watt lamps					
2′	11	110	300W	150W	150W
4′	22	220	300W	300W	300W
5′	27	270	300W	300W	300W
6′	33	330	600W	n/a	450W
8′	44	440	600W	n/a	450W
10′	55	550	600W	n/a	600W
5 watt lamps					
2′	11	55	300W	75W	150W
4′	22	110	300W	150W	150W
5′	27	135	300W	150W	150W
6′	33	165	300W	300W	300W
8′	44	220	300W	300W	300W
10′	55	275	300W	300W	300W
3 watt lamps					
2′	11	33	300W	75W	150W
4′	22	66	300W	75W	150W
5′	27	81	300W	150W	150W
6′	33	99	300W	150W	150W
8′	44	132	300W	150W	150W
10′	55	165	300W	300W	300W

HOW TO CUT TO LENGTH TO FIT EXACT JOB REQUIREMENTS

THERE ARE TWO TYPES OF FIELD MODIFICATIONS:

1. DEAD END OR SINGLE CIRCUIT TERMINATION

The most common modification - end of run conditions where no additional strips are required

You will need:

- Measuring tape
- Hacksaw or wire cutters
- RAD 401 Dead End Termination

1. Remove excess lamps
2. Cut fixture with wire cutters or hacksaw flush to desired length, less 1/4"
3. Attach RAD 401 Dead End Termination to end of fixture

RAD 401 DEAD END TERMINATION

2. LIVE END OR TWO CIRCUIT CONNECTION

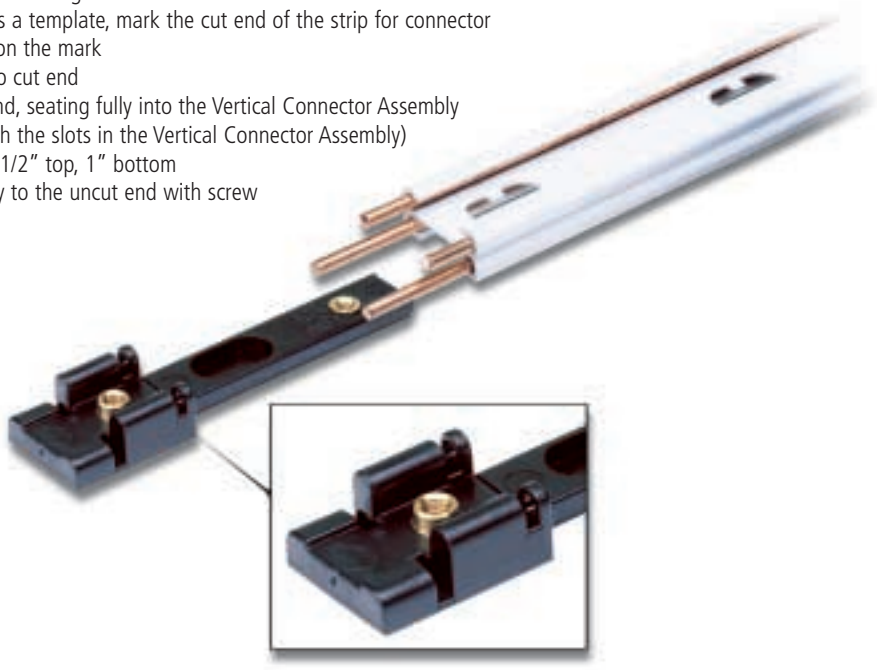
Where attaching an additional LV225 strip or where you need to access the second 25 Amp circuit

You will need:

- Measuring tape
- Hacksaw
- Wire Cutters
- Drill with 1/8" drill bit
- #2 Phillips head screwdriver

1. Remove lamps and lampholders at each end of the strip and at the cut
2. Unscrew and remove Vertical Connector Assemblies from both ends of the strip
3. Pull wire sets 4" out from uncut end
4. Cut fixture with hacksaw flush to desired length
5. Using Vertical Connector Assembly as a template, mark the cut end of the strip for connector mounting screw and drill 1/8" hole on the mark
6. Install Vertical Connector Assembly to cut end
7. Push wire sets completely into cut end, seating fully into the Vertical Connector Assembly (wire sets will become visible through the slots in the Vertical Connector Assembly)
8. At uncut end, trim wires to length – 1/2" top, 1" bottom
9. Reinstall Vertical Connector Assembly to the uncut end with screw

WIRE SETS



INTEGRATED CONNECTOR ASSEMBLY

HOW TO DETERMINE THE NUMBER OF 25 AMP CIRCUITS

CIRCUIT CALCULATOR

THE RADIANT CHECKSUM SYSTEM (shown on page 6-7) can also be utilized using our Circuit Calculator Chart.
To use, round the linear footage (or meters) up to the closest mark in the chart, select the lamp wattage specified and follow the columns to determine the number of 25 Amp circuits.

CALCULATOR

NUMBER OF 25 AMP CIRCUITS

24 VOLT SYSTEM — **LINEAR FEET** — **CHECKSUM = 100**

LENGTH	5'	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'	85'	90'	95'	100'
10 Watt	1	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10
5 watt	1	1	1	1	1	2	2	2	2	3	3	3	4	4	4	4	5	5	5	5
3 Watt	1	1	1	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3

NUMBER OF 25 AMP CIRCUITS

12 VOLT SYSTEM — **LINEAR FEET** — **CHECKSUM = 50**

LENGTH	5'	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'	65'	70'	75'	80'	85'	90'	95'	100'
10 Watt	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
5 watt	1	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10

NUMBER OF 25 AMP CIRCUITS

24 VOLT SYSTEM — **LINEAR METERS** — **CHECKSUM = 30**

LENGTH	5m	10m	15m	20m	25m	30m	35m	40m	45m	50m	55m	60m	65m	70m	75m	80m	85m	90m	95m	100m
10 Watt	1	1	1	2	2	2	3	3	3	4	4	4	5	5	5	6	6	6	7	7
5 watt	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3	3	4	4
3 Watt	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2

NUMBER OF 25 AMP CIRCUITS

12 VOLT SYSTEM — **LINEAR METERS** — **CHECKSUM = 15**

LENGTH	5m	10m	15m	20m	25m	30m	35m	40m	45m	50m	55m	60m	65m	70m	75m	80m	85m	90m	95m	100m
10 Watt	2	2	2	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20
5 watt	1	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	8	8	10

RAD LV 225 ACTUAL LENGTHS

FIXTURE	NOMINAL LENGTH	ACTUAL LENGTH
RAD LV225 F/L 02	2ft fixture	27.1" (690mm)
RAD LV225 F/L 04	4ft fixture	48.7" (1240mm)
RAD LV225 F/L 05	5ft fixture	61.7" (1570mm)
RAD LV225 F/L 06	6ft fixture	74.7" (1900mm)
RAD LV225 F/L 08	8ft fixture	96.4" (2450mm)
RAD LV225 F/L 10	10ft fixture	122.4" (3110mm)

RADIANT

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